

**HEAT EXCHANGE SYSTEM CHIP TEMPERATURE
SENSOR**

ABSTRACT OF THE DISCLOSURE

5 A chip temperature sensor includes a support member, a resistance temperature detector (RTD), and signal leads. The support member is slidably mountable within a heat sink bore of a burn-in oven heat exchange system and includes first and
10 second ends, a socket formed in the first end, a bore extending from the socket through the second end, and a flange positioned between the first and second ends. The RTD is seated in the socket and includes a chip contact surface that is raised relative to the
15 first end. The RTD is configured to produce a temperature signal that is indicative of a temperature at the chip contact surface. The signal leads are attached to the RTD and extend through the bore of the support member and out the second end of
20 the support member. A heat exchange system that includes the above-described chip temperature sensor.